

(2.4) Classifying Figures on a Coordinate Grid





A) Classifying Triangles

	Scalene	Equilateral	Isosceles	Right
diagram				
lengths of sides				N/A
angle measures				

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(2.4) Classifying Figures on a Coordinate Grid

A) Classifying Triangles

	Scalene	Equilateral	Isosceles	Right
diagram				
lengths of sides	Side lengths different	Sides are equal length	Two sides same length	N/A
angle measures				Slopes of two sides are perpendicular -ve rec

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B) Classifying Quadrilaterals





a quadrilateral is a 4-sided, 2-dimensional figure

	Parallelogram	Rectangle	Rhombus	Square
diagram				
lengths of sides				
slopes of sides				

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B) Classifying Quadrilaterals

a quadrilateral is a 4-sided, 2-dimensional figure

	Parallelogram	Rectangle	Rhombus	Square
diagram				
lengths of sides	Opposite sides are equal length	Opposite sides are equal length	all sides same length	all sides same length
slopes of sides	opposite sides have same slope	opposite sides have same slope	opposite sides have same slope	opposite sides have same slope

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TO "VERIFY" or "PROVE":

1) sides are the same length:

$$l = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

2) sides are parallel } same slopes

perpendicular } slopes are negative reciprocals

right angle } slopes are negative reciprocals

$$m = \frac{y_2 - y_1}{x_2 - x_1} \quad \text{using the coordinates, or}$$

$$m = \frac{\text{rise}}{\text{run}} \quad \text{using a graph}$$

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